## (19) World Intellectual Property **Organization**

International Bureau





(43) International Publication Date 7 July 2005 (07.07.2005)

PCT

## (10) International Publication Number WO 2005/061436 A1

- C07C 231/12, (51) International Patent Classification<sup>7</sup>: 233/23, 409/40
- (21) International Application Number:

PCT/GB2004/005389

(22) International Filing Date:

21 December 2004 (21.12.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0329771.0

23 December 2003 (23.12.2003) GB

- (71) Applicant (for all designated States except US): ANGIO-GENE PHARMACEUTICALS LIMITED [GB/GB]; The Magdalen Centre, The Oxford Science Park, Oxford Oxfordshire OX4 4GA (GB).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): EVANS, Matthew [GB/GB]; AstraZeneca, Charter Way, Macclesfield Cheshire SK10 2NA (GB). LEONARD, John [GB/GB]; AstraZeneca, Charter Way, Macclesfield Cheshire SK10 2NA (GB). LILLEY, Tim [GB/GB]; AstraZeneca, Charter Way, Macclesfield Cheshire SK10 2NA (GB). WHIT-TALL, John [GB/GB]; StylaCats Limited, The Heath Business & Technical Park, Runcorn Cheshire WA7 4QX (GB).

- (74) Agent: ASTRAZENECA; Global Intellectual Property, S-151 85 Södertälje (SE).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

## (54) Title: PROCESS FOR PREARING N-ACETYLCOLCHINOL & INTERMEDIATES USED IN SUCH PROCESSES

**(I)** 

(57) Abstract: A process for the preparation of ZD6126 Phenol (1) from allocolchicine or an ester derivative thereof of formula (I), or from a ZD6126 Alcohol of the Formula (II) wherein R<sup>1</sup> and R<sup>2</sup> are as defined in the description. Also claimed are intermediates, processes for their preparation and the use of the intermediates in the manufacture of ZD6126 Phenol.